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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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George L. Snyder, Jr.			SNAY, JEFFREY R	
Hodgson Russ LLP One M&T Plaza, Suite 2000			ART UNIT	PAPER NUMBER
Buffalo, NY 1			1743	
•			DATE MAILED: 04/04/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

## TRUTNAU ET AL.    Examiner								
Examiner   Art Unit   Jeffrey R. Snay   1743		Application No.	Applicant(s)					
Jeffrey R. Snay	Office Action Summary							
- The MALING DATE of this communication appears on the cover sheet with the correspondence address − Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Estamblisor for many by a evaluate under the previous of 3 °CFR 1.134(a). In no event, however, may a reply be timely filled by the pando for reply specified above. The reactions of 3 °CFR 1.134(a). In no event, however, may a reply be timely filled for the pando for reply specified above. The reactions of 3 °CFR 1.134(a). Into event, however, may a reply be timely filled for the pando for reply specified above. The reaction statistic protein will adulty or provide a plant or mailing date of this communication.  Falver to reply writin the south extended precided will adulty and will apply and viet experiment to become ARAHOCHED (as U.S.C. § 133).  Falver to reply writin the south extended precided in reply will, by statulate, dates the application to become ARAHOCHED (as U.S.C. § 133).  This action is FINAL.  1) Responsive to communication(s) filled on	Office Action Guillinary							
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1) Responsive to communication(s) filed on	THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any							
2a) ☐ This action is FINAL.  2b) ☐ This action is non-final.  3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) ☐ Claim(s) 1-22 is/are pending in the application. 4a) Of the above claim(s) is/are allowed. 6) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) is/are objected to by the Examiner.  10) ☐ The psecification is objected to by the Examiner.  10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1 ☐ Certified copies of the priority documents have been received in Application No 3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  **See the attached detailed Office action for a list of the certified copies not received.  **Attachment(s) 1) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)	Status							
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	2) DNotice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ite					
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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-5, 8-11, 13-16 and 19-22 are rejected under 35 U.S.C. 102(b) as being anticipated by Uchiyama et al.

Uchiyama et al disclose a flow through sensor which comprises all of the presently recited features. Particularly, referring to Figure 1 thereof, the sensor of Uchiyama et al comprises a first tube (1) forming an inlet tube, a concentric outer tube (4) forming a discharge tube, and a flow cell head which is formed by connection of the prism holder (12) and its attachment to distal ends of the first and second tubes. Uchiyama et al teach the structure being integrated via bolts and nuts, which would have fully constituted what applicant recites as a "press fit." Uchiyama et al further teach additional sealing provided as an O-ring gasget (8) located in a step of the flow cell head. Glass fiber (3) directs light from a source to a sensor surface (2) for conducting an optical analysis of a sample flowing through the device. Uchiyama et al further teach that the distal end of the inlet tube is flared so as to facilitate laminar fluid flow to the sensor surface. Such flaring would have rendered the face of the inlet tube as partially parallel to the sensor surface and partially inclined. In any event, the

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presently recited limitation that the inlet tube end is inclined with respect to the sensor surface does not preclude an angle of inclination equal to zero degrees.

## Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
  - 1. Determining the scope and contents of the prior art.
  - 2. Ascertaining the differences between the prior art and the claims at issue.
  - 3. Resolving the level of ordinary skill in the pertinent art.
  - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

6. Claims 6, 7, 12, 17, 18 and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Uchiyama et al.

The device of Uchiyama et al, as described above, differs from the claimed invention in that it fails to specify the diameter of the outer tube, and further fails to teach the inlet tube discharge end being exponentially or hyperbolically curved.

However, the selection of any particular size would have been obvious to one of ordinary skill in the art in order to scale the device to the particular sample flow desired. Furthermore, Uchiyama et al specify that the inlet tube discharge end is geometrically designed as curved so as to facilitate laminar flow of fluid to the sensor surface and to the outer tube. The optimization of the actual geometric curve to accomplish the disclosed desired effect would have been obvious to one of ordinary skill in the art as an optimization of a know result effective variable.

- 7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure as background information related to applicant's field of endeavor.
- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffrey R. Snay whose telephone number is (571) 272-1264. The examiner can normally be reached on Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jill A. Warden can be reached on (571) 272-1267. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Jeffrey R. Snay Primary Examiner Art Unit 1743

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